

OSA -2867-67

S-22 INFRARED SYSTEM

PROGRESS REPORT NO. 26

I INTRODUCTION

II PROGRAM STATUS

- A. Technical Conferences
- B. System Integration
- C. Development Status

III PROBLEM AREAS

I INTRODUCTION

Two Model S-22 Infrared Scanners have been developed and are to be retrofitted with new analog electronic modules prior to system evaluation. The following report summarizes the monthly progress from 15 June to 15 July 1967.

The only work in process at this time is the production of 100 electronic modules for retrofit. These units, as previously reported, have been rescheduled for delivery due to slippages in production and a higher priority companion program. Delivery of the units is scheduled for early September and integration of the modules into the S-22 system will be done on a non-interference basis with the above-mentioned higher priority program.

II PROGRAM STATUS

A. Technical Conferences

Clay visited John and Al, 28 June 1967; subject: Program Review.

B. System Integration

No work was done in this area.

C. Development Status

1. Thermoelectric Cooler

Delivery of this item has been rescheduled to 1 August.

Some fabrication problems were experienced and in addition, the vendor shut down work for vacations. This is not a pacing item.

2. Analog Electronic Modules

The following Table presents the current status in the design and production of the required 100 modules. The problems experienced in this area are as previously reported: poor quality in deposition masks and a low yield in the selection of low noise devices for the pre-amplifier.

III PROBLEM AREAS

A delivery slippage in excess of 12 weeks exists as a result of poor masks and yielding to a higher priority companion program.

TABLE I
ANALOG MICROELECTRONIC STATUS

	<u>PreAmp-Filter</u>	<u>AGC</u>	<u>Threshold</u>
Circuit Design	(C) Complete	(C) Complete	(C) Complete
Package Design	(c)	(C)	(C)
Worse Case Analysis	(C)	(C)	(C)
Mask Fabrication	(C)	(C)	(C)
Deposition & Test	55%	48%	80%
Component Delivery	100%	100%	100%
Assembly	55%	42%	51%
Module Status	53 units		

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7/67 OSA - 2793-67

S-22

CONTRACTOR MONTHLY FINANCIAL REPORT"HARDWARE" TYPE CONTRACT

1. Contract Number FH-2510 Task Order No. (If Any) _____
2. Financial Status as of 7/2/67 (Date)
3. Contract Performance Period From 5/18/65 To 6/30/67
4. Estimated Percentage of Work Completed 91%
5. Estimated Contract Completion Date (Depends on W-80) 11/15/67
6. Contractor Planned Cumulative Expenditures to Date \$ 752,432
7. Cumulative Actual Expenditures to Date \$ 714,909
8. Contractor Planned Outstanding Commitments \$ -0-
9. Actual Outstanding Commitments \$ -0-
10. Cumulative Planned Expenditures and Outstanding Commitments to Date (6 + 8) \$ 752,432
11. Cumulative Actual Expenditures and Outstanding Commitments to Date (7 + 9) \$ 714,909
12. Variance - Lines 10 - 11 (+ or -) \$ + 37,523
13. Estimate to Complete Contract \$ 74,000
14. Total Estimated Amount Required to Perform Contract (7 + 13) \$ 788,909
15. Contract Funds Allocated \$ 839,735
16. Variance - Lines 15 - 14 (+ or -) \$ + 50,826
17. Additional Amount for Work Proposed, But not yet Authorized \$ -0-